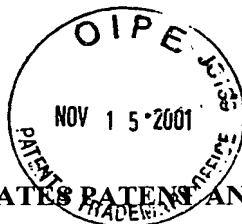


Docket No. 212671US2/hc



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hideo TAKIZAWA

SERIAL NO: 09/927,517

GAU: 3725

FILED: August 13, 2001

EXAMINER:

FOR: NUMERICAL-SIMULATION METHOD FOR ROTARY METAL FORMING, RECORDING MEDIUM AND PROGRAM

INFORMATION DISCLOSURE/RELATED CASE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
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Sheet 1 of 1

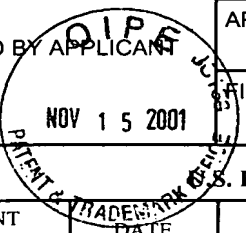
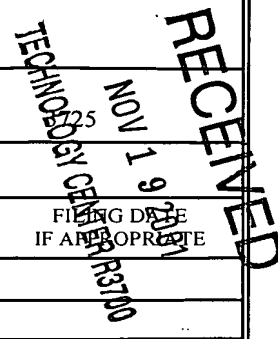
SERIAL NO: 09/927,517

Group Art Unit: 3725

STATEMENT OF RELEVANCY

References AP and AQ on Form 1449:

These references relate to analytical studies, and the subject matter thereof can only apply to simple shapes such as rectangles. Conversely, the present application relates to numerical analysis (more specifically, finite element analysis), and the subject matter thereof can apply to complicated shapes.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 212671US2		SERIAL NO. 09/927,517	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Hideo TAKIZAWA			
				FILING DATE August 13, 2001		GROUP	
<div style="text-align: center;">   </div>							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AF	6-168262	06/14/94	JAPAN (with English Abstract)			X
	AG	7-236923	09/12/95	JAPAN (with English Abstract)			X
	AH	9-185600	07/15/97	JAPAN (with English Abstract)			X
	AI						
	AJ						
	AK						
	AL						
	AM						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AN	H. TAKZAWA, The Proceedings of the 51st Japanese Joint Conference for the Technology of Plasticity, pages 283 and ii - xi, "FINITE ELEMENT ANALYSIS OF PARTIALLY MODELED RING ROLLING" November 3-5, 2000					
	AO	H. TAKZAWA, et al., Proceeding of the 7th International Conference on Numerical Methods in Industrial Forming Processes - NUMIFORM 2001, Simulation of Materials Processing: Theory, Methods and Applications, pages 601-606, "RIGID-PLASTIC FINITE ELEMENT ANALYSIS OF PARTIALLY MODELED RING ROLLING", June 18-20, 2001 (English document of reference AN)					
	AP	M.HAYAMA, et al., Metal Forming, vol. 22, no. 240, pages 71-79, "ESTIMATION OF ROLL FORCE, TORQUE AND LATERAL SPREAD IN RING ROLLING OF PLAIN RING", January 1981(with English Abstract)					
	AQ	M. HAYAMA, Bulletin of the Faculty of Engineering, vol. 31, pages 131-153, "THEORETICAL ANALYSIS ON RING ROLLING OF PLAIN RING", March 1982 (English document of reference AP)					
	AR	D. S. WOLF, The 23rd Forging Industry Technical Conference "2001 - A Shape Odyssey", pages 1-22, "MULTI-PASS RING ROLLING SIMULATION", April 23-25, 2001					
	AS	D. Y. YANG, et al., Int. J. Mech. Sci., vol. 33, no. 7, pages 541-547 and 549-550, "SIMULATION OF T-SECTION PROFILE RING ROLLING BY THE 3-D RIGID-PLASTIC FINITE ELEMENT METHOD", 1991					
	AT	D. Y. YANG, et al., Int. J. Mech. Sci., vol. 30, no. 8, pages 571-580, "RIGID-PLASTIC FINITE ELEMENT ANALYSIS OF PLANE STRAIN RING ROLLING", 1998					
	AU	N. KIM, et al., Int. J. Mach. Tools Manufact., vol. 30, no. 4, pages 569-577, "RING ROLLING PROCESS SIMULATION BY THE THREE DIMENSIONAL FINITE ELEMENT METHOD", 1990					
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							